ABSTRACT OF THE DISCLOSURE

The optical sampling system ~~realizes the optical sampling~~ performs by detecting the interference effect which is a linear correlation between the signal lights and the optical pulses, so that ~~it suffices for~~ both the signal lights and the optical pulses ~~to~~ can have relatively low intensities, and the reception sensitivity is high. Also, the pulse width of the optical pulses and the amount of delay given to the optical pulses are the only factors that limit the time resolution, so that it is possible to provide the optical sampling system with excellent time resolution and power consumption properties, and it is possible for the optical sampling system to monitor not only the intensity of the signal lights but also the frequency modulation component as well.